



**SPAN 3**

LOCATION (10TH PT. SPAN)	0	1	2	3	4	5	6	7	8	9	10
A DL GIRDER	0	2	4	5	6	6	6	5	4	2	0
B DL DECK	0	6	12	17	19	20	19	17	12	6	0
C DL CURBS, RAILS, BALLAST	0	3	6	9	10	11	10	9	6	3	0
D VERTICAL GRADE	0	-11	-22	-33	-43	-54	-65	-76	-87	-98	-108
E CHORD	0	-11	-22	-33	-43	-54	-65	-76	-87	-98	-108
F NET CAMBER	0	12	22	30	36	37	36	30	22	12	0

**SPAN 4**

LOCATION (10TH PT. SPAN)	0	1	2	3	4	5	6	7	8	9	10
A DL GIRDER	0	1	2	2	3	3	3	2	2	1	0
B DL DECK	0	4	7	10	11	12	11	10	7	4	0
C DL CURBS, RAILS, BALLAST	0	2	4	5	6	6	6	5	4	2	0
D VERTICAL GRADE	-112	-121	-130	-139	-148	-156	-165	-174	-183	-192	-200
E CHORD	-112	-121	-130	-139	-148	-156	-165	-174	-183	-192	-200
F NET CAMBER	0	6	12	17	20	21	20	17	12	6	0

**CAMBER DIAGRAM**

HORIZONTAL SCALE: 1: 100  
 VERTICAL GRADE SCALE: 1: 10  
 VERTICAL DEFLECTION SCALE: 2: 1

**NOTES:**

- NET CAMBER (F) = A + B + C + D - E
- "NET CAMBER" FIGURES ARE FOR GIRDER SECTIONS IN ZERO LOAD CONDITIONS
- FABRICATOR IS RESPONSIBLE FOR MAKING ALLOWANCES SUCH THAT CAMBER ON COMPLETED GIRDER SECTIONS WILL BE WITHIN ALLOWABLE TOLERANCES. ALL PROCEDURES FOR CAMBER ADJUSTMENT MUST BE APPROVED BY THE ENGINEER PRIOR TO USE.
- LONGITUDINAL GIRDER DIMENSIONING (SHOWN HORIZONTAL) IS CORRECT ALONG THE BOTTOM FLANGE AT 20°C.
- ALL DIMENSIONS SHOWN IN MILLIMETERS.



DESIGNED BY	RE	CHECKED BY	SSR
DRAWN BY	NBG	APPROVED BY	DBW
HOR. SCALE	AS SHOWN	RELEASED FOR CONSTRUCTION	
VERTICAL	AS SHOWN		
NO.	REVISIONS	DATE	BY
0	ISSUED FOR TENDER	17/01/09	RE

<b>DILLON CONSULTING</b>	
ENGINEER'S SEAL	PROVINCE OF MANITOBA
R.B. ERIC Member 22665 REGISTERED PROFESSIONAL ENGINEER	
CONSULTANT PROJECT NUMBER	16-3353

THE CITY OF WINNIPEG PUBLIC WORKS DEPARTMENT
WAVERLEY STREET UNDERPASS AT CN MILE 3.89 RIVERS SUB CONTRACT 2: UNDERPASS STRUCTURE, RAILWORKS, ROADWORKS, LAND DRAINAGE SEWER, PUMPING STATION AND LANDSCAPING WORKS
STEEL GIRDER CAMBER DIAGRAM SPAN 3 AND 4

CITY DRAWING NUMBER	U-239-2016-C2-CS-034
SHEET	034 OF 085
CONSULTANT DRAWING NUMBER	C2-CS-034